

# ***HAZARDOUS MATERIALS TRANSPORTATION TRAINING MODULES***



U.S. Department of Transportation  
Research and Special Programs  
Administration



**HAZARDOUS MATERIALS  
TRANSPORTATION TRAINING MODULES**

Intro-01-10/99



**Sponsored by  
Research and Special  
Programs Administration  
U.S. Department of Transportation**





Intro-03-10/99

# **HM Definition**

**Capable of posing unreasonable risk when transported in commerce**

- To Health**
- To Safety**
- To Property**



# 3 Billion Tons Each Year





Intro-06-10/99



UNITED STATES  
DEPARTMENT  
OF  
TRANSPORTATION

Intro-07-10/99

# The Hazardous Materials Regulations

- Title 49  
Code of Federal Regulations
- Parts 171-180







Intro-09-10/99

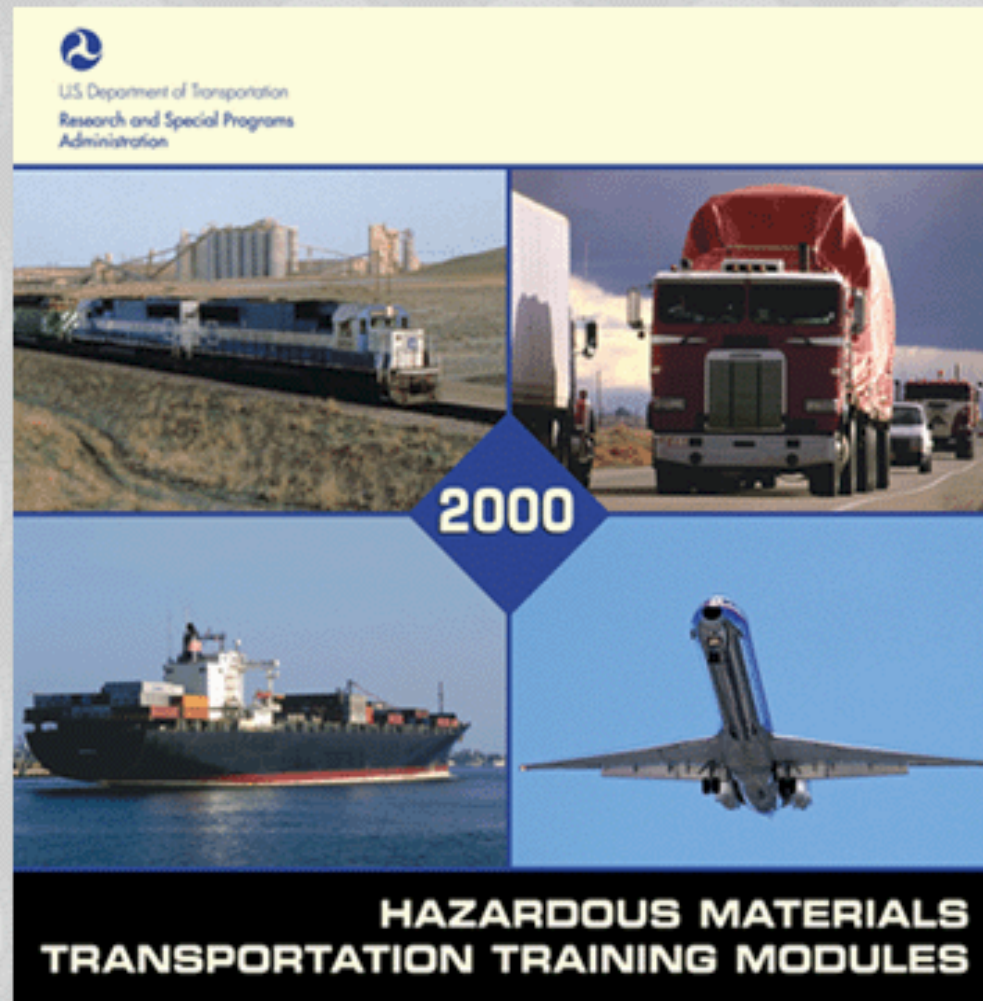
# Standards

- Classification
- Packaging
- Hazard Communication
- Emergency Response Information
- Training
- Transportation
- Incident Reporting

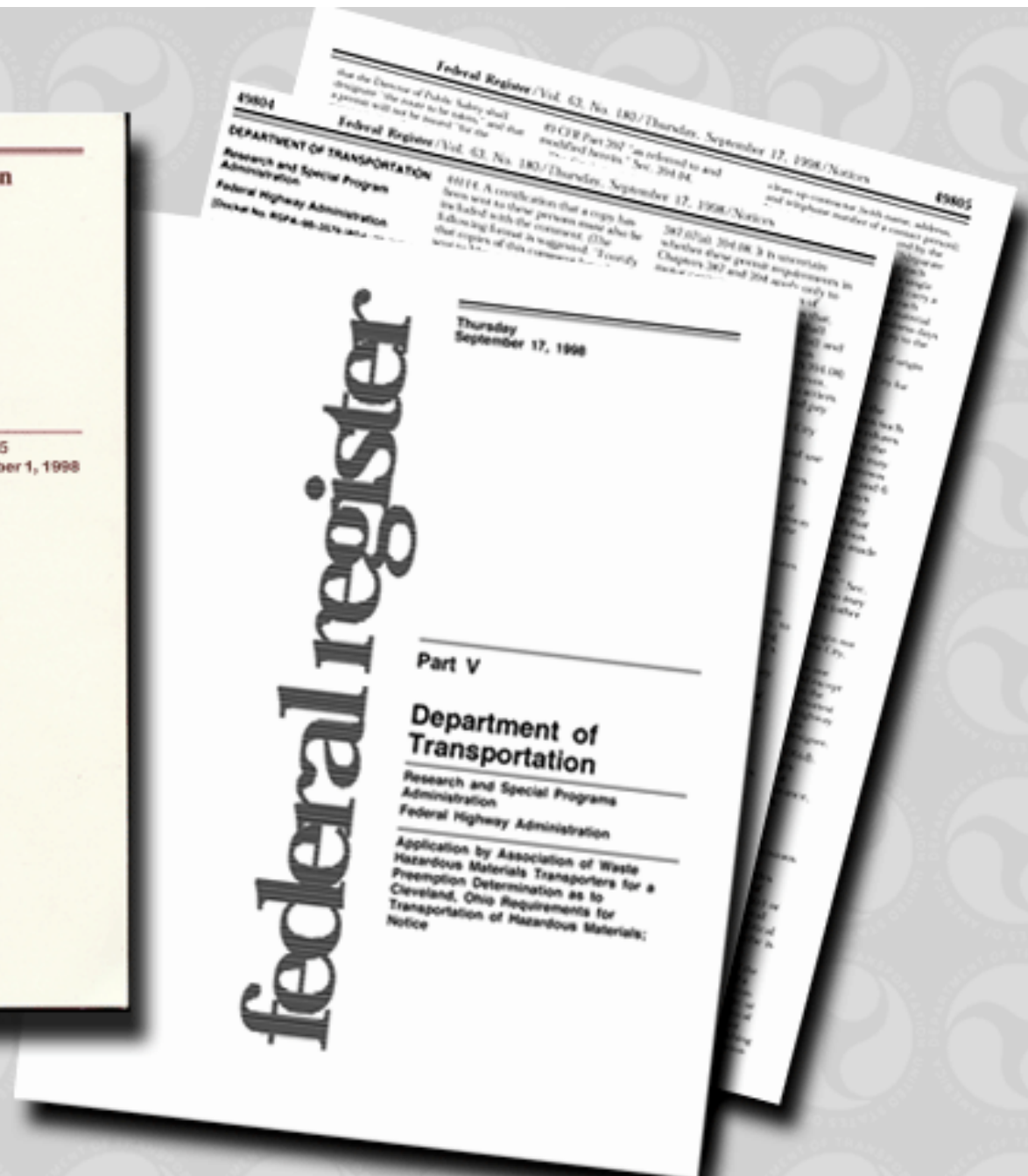




# For Training Purposes Only



Intro-11-10/99



Intro-12-10/99



# 171.2(a)

**No Person  
May Offer or Accept  
A Hazardous Material  
For Transportation  
In Commerce Unless...**

## **§ 171.2 General requirements.**

(a) No person may offer or accept a hazardous material for transportation in commerce unless that person is registered in conformance with subpart G of part 107 of this chapter, if applicable, and the hazardous material is properly classed, described, packaged, marked, labeled, and in condition for shipment as required or authorized by applicable requirements of this subchapter, or an exemption, approval or registration issued under this subchapter or subchapter A of this chapter.

# 171.2(c)

## **No Person May Misrepresent A Package or Container Used in Commerce**

(c) No person may represent, mark, certify, sell, or offer a packaging or container as meeting the requirements of this subchapter or an exemption, approval or registration issued under this subchapter or subchapter A of this chapter, governing its use in the transportation in commerce of a hazardous material, whether or not it is used or intended to be used for the transportation of a hazardous material, unless the packaging or container is manufactured, fabricated, marked, maintained, reconditioned, repaired and retested, as appropriate, in accordance with applicable requirements of this subchapter, or an exemption, approval or registration issued under this subchapter or subchapter A of this chapter.



# Hazmat Training



- General Awareness/Familiarization
- Function Specific
- Safety

# **Hazardous Materials Training**

## ***It's the LAW!***



Intro-16-10/99



# **Penalties**

**Civil penalties**

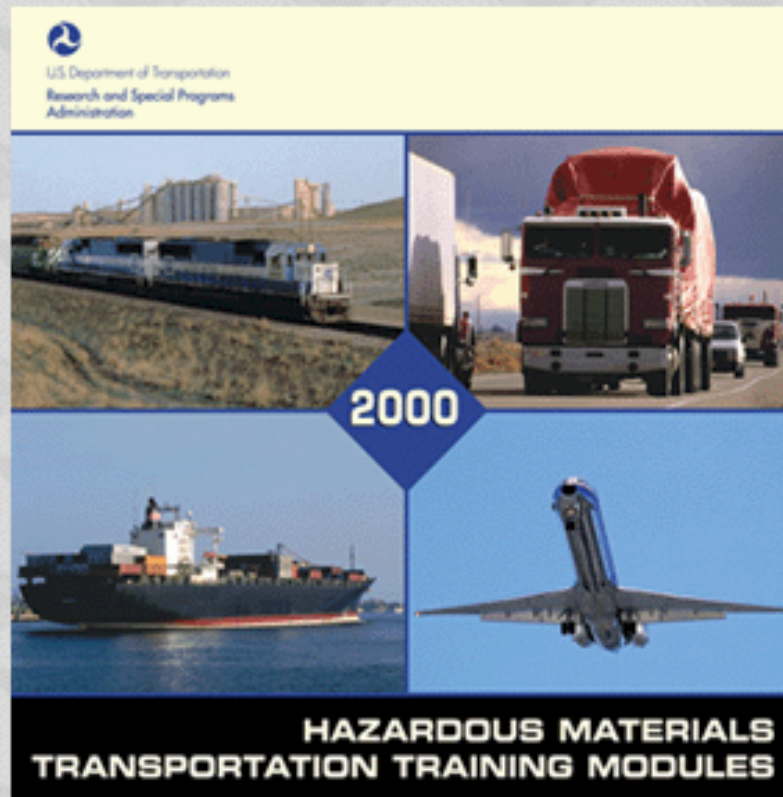
**up to**

**\$27,500**

**Criminal penalties**

**up to \$500,000**


**and/or 5 years in jail**



# **General Awareness/Familiarization or Basis for Function Specific**

Intro-18-10/99





**Module 1 - The Hazardous Materials Table**

**Module 2 - Shipping Papers**

**Module 3 - Packaging**

**Module 4 - Marking & Labeling**





**Module 5 - Placarding**

**Module 6a - Carrier Requirements (Highway)**

**Module 6b - Carrier Requirements (Air)**

**Module 6c - Carrier Requirements (Rail)**

**DOT HazMat Training-->1 - The Hazardous Materials Table**

File Tools View Help

Student Response Note 4 - 9

Anyone who \_\_\_\_\_ hazardous materials for transportation must train his/her employees in the applicable requirements of the HMR.

Fill in the Blank

offers

Correct! Please continue.

Enter

Controls

Logon ID: JONES

07/12/1999 08:47

Play Audio

Rewind Audio

Main Menu

Back One Frame

Next Frame

Next Response

Student Response Note: 1-2

The Hazardous Materials Table, 172.101, lists materials \_\_\_\_\_, by proper shipping name, along with other information for preparing shipments for transportation.

Select one

☐ in random order

☒ numerically

☐ by hazard class

☐ alphabetically

Incorrect, please review the applicable frames and try again.

Enter



Student Response Note: 4-9

Labeling means placing on the outside of the shipping container a warning notice specific to the hazard.

Select one

- ☒ True
- ☐ False

Student Response Note: 1-2

The Hazardous Materials Table, 172.101, lists materials \_\_\_\_\_, by proper shipping name, along with other information for preparing shipments for transportation.

Student Response Note: 4-9

Select one

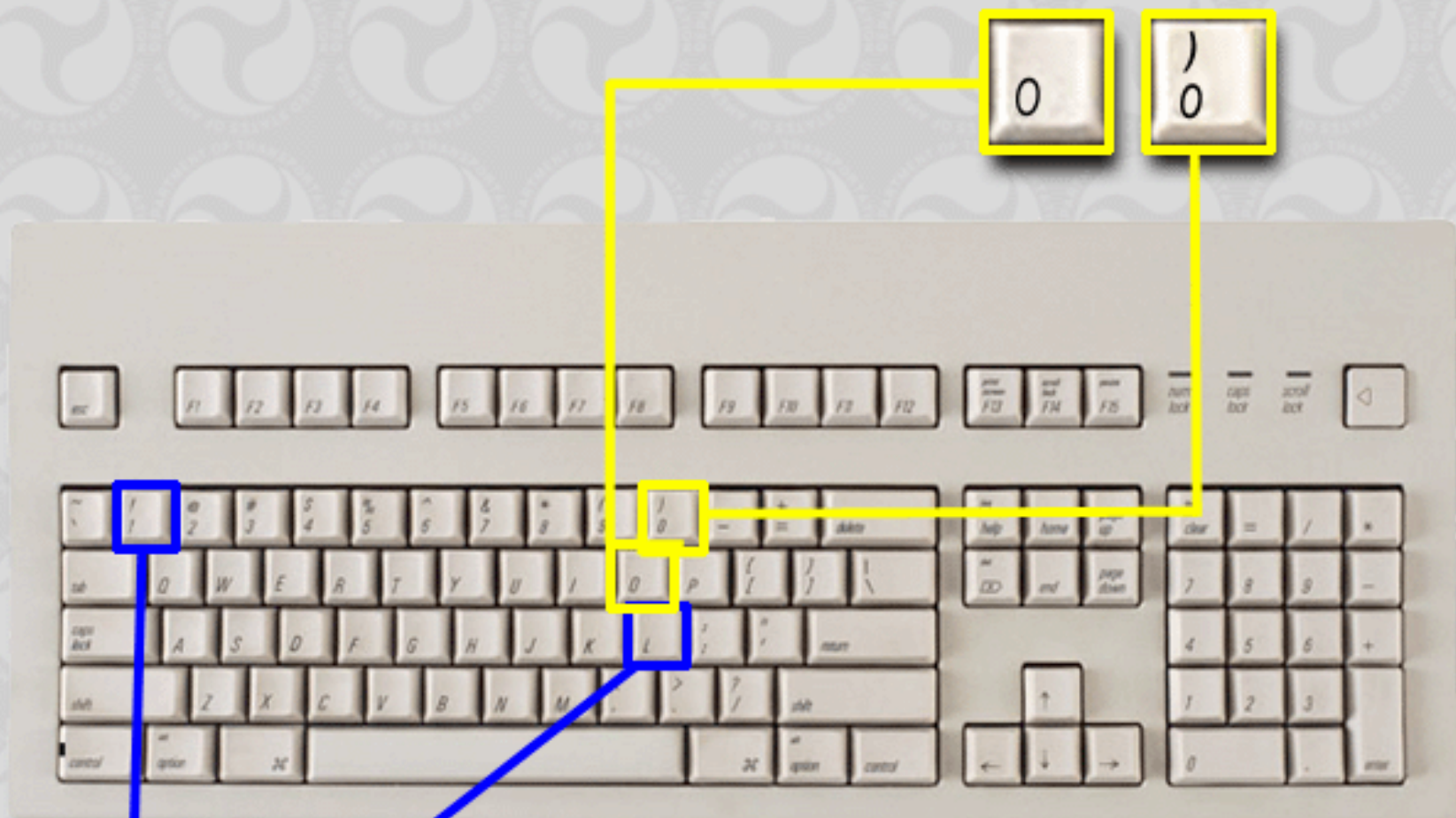
- ☒ in random order
- ☐ numerically
- ☐ by hazard class
- ☐ alphabetically

Anyone who \_\_\_\_\_ hazardous materials for transportation must train his/her hazmat employees in the applicable requirements of the HMR.

Fill in the Blank:

4-9 ANSWERS: Joffer Joffers!

Enter



Intro-24-10/99

**DOT HazMat Training-->1 - The Hazardous Materials Table**

File Tools View Help

Question: 12

The Hazardous Materials Regulations are often referred to as the \_\_\_\_\_.

Fill in the Blank

Enter

Controls

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07/15/1999 13:51

Pause Audio

Rewind Audio

Main Menu

Back One Frame

Next Frame

Next Response



**DOT HazMat Training-->1 - The Hazardous Materials Table**

File Tools View Help

Student Response Note 12

The HMR are in Parts \_\_\_\_ to 180 of Title 49, Code of Federal Regulations.

Fill in the Blank

Enter

Controls

Logon ID: JONES

02/03/2000 17:09

Pause Audio

Restart Audio

Main Menu

Back One Frame

Next Frame

Next Response

### 1. The Hazardous Materials Table



Congratulations! You have viewed all of this module and correctly answered the responses.

You may now take the test.

Press Yes to take the test now.

Press No to return to the main menu.

Yes

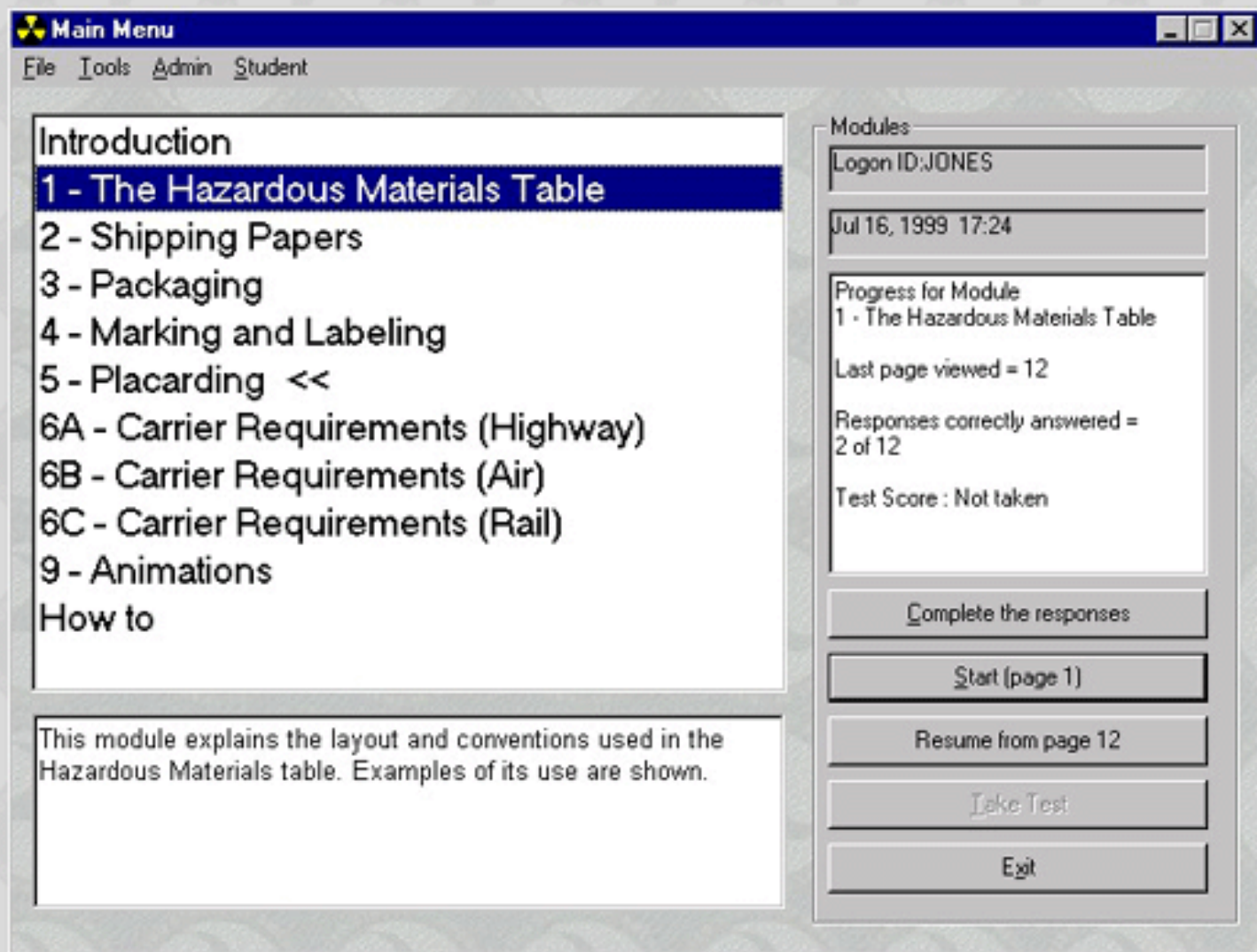
No



### HazMat

You have finished the Module 2 - Shipping Papers Test.  
You answered 35 correctly out of 35.  
Press OK to return to the main menu.

OK



# The Hazardous Materials Regulations

## Title 49 CFR, Parts 100-185







Intro-31-10/99

## TABLE 2

**May use Dangerous placard if:  
Non-bulk packages of two or more**

Reference

File

[Code of Federal Regulations]  
[Title 49, Volume 2, Parts 100 to 189]  
[Revised as of October 1, 1998]  
From the U.S. Government Printing Office  
via GPO Access  
[CITE: 49CFR172.504]

[Page 320-322]

TITLE 49--  
TRANSPORTATION  
CHAPTER I--RESEARCH AND SPECIAL PROGRAMS



Controls

Logon ID: 0

01/07/2000 10:48

Play Audio

Rewind Audio

Main Menu

Back One Frame

Next Frame

Next Response

## Reference

File

[Code of Federal Regulations]  
[Title 49, Volume 2, Parts 100 to 185]  
[Revised as of October 1, 1998]  
From the U.S. Government Printing Office via GPO Access  
[CITE: 49CFR172.504]

[Page 320-322]

### TITLE 49--TRANSPORTATION

#### CHAPTER I--RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION, DEPARTMENT OF TRANSPORTATION

PART 172--HAZARDOUS MATERIALS TABLE, SPECIAL PROVISIONS, HAZARDOUS MATERIALS  
COMMUNICATIONS, EMERGENCY RESPONSE INFORMATION, AND TRAINING REQUIREMENTS--Table  
of Contents

#### Subpart F--Placarding

Sec. 172.504 General placarding requirements.

(b) DANGEROUS placard. A freight container, unit load device,  
transport vehicle, or rail car which contains non-bulk packages with two



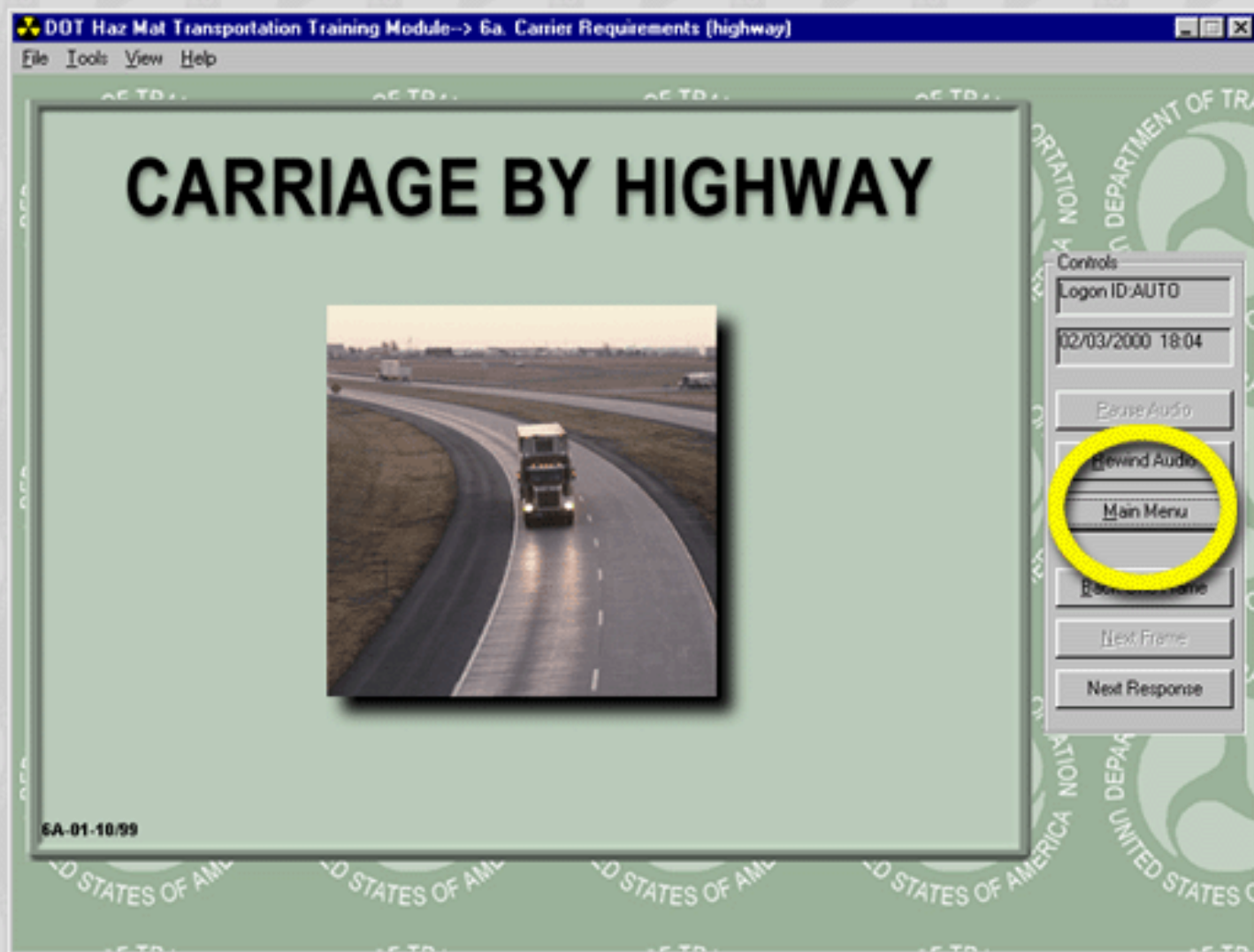


### Regulations

Title 49 Code of Federal Regulations

#### 172.502(a)(2)

(2) Any sign, advertisement, slogan (such as "Drive Safely"), or device that, by its color, design, shape or content, could be confused with any placard prescribed in this subpart.








DOT Haz Mat Transportation Training Module--> 6b. Carrier Requirements [air]

File Tools View Help

# CARRIAGE BY AIRCRAFT



68-01-10/99

Controls

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02/03/2000 18:04

Pause Audio

Rewind Audio

Next Frame


Back One Frame

Next Response

DOT Haz Mat Transportation Training Module -> 6b. Carrier Requirements [air]

File Tools View Help

# USE OF LINERS



6B-42-10/99

Controls

Logon ID: AUTO

Pause Audio

Rewind Audio

Main Menu

Back One Frame

Next Frame

Next Response

DOT Hazardous Transportation Training Module -> 6a. Carrier Requirements (highway)

File Tools View Help

Print Screen  
Exit

**PART 397—TRANSPORTATION OF HAZARDOUS MATERIALS; DRIVING AND PARKING RULES**

**Subpart A—General**

Sec. 397.1 Application of the rules in this part.  
397.2 Compliance with Federal motor carrier safety regulations.  
397.3 State and local laws, ordinances, and regulations.  
397.5 Attendance and surveillance of motor vehicles.  
397.7 Parking.  
397.9 [Reserved]  
397.11 Fires.  
397.13 Smoking.  
397.15 Fueling.  
397.17 Tires.

**Subpart B—Qualification and Qualification of Drivers**

General qualifications of drivers

on shall not drive a commercial motor vehicle unless he/she is qualified as provided in § 391.63, a

**Must Comply With Federal Motor Carrier Safety Regulations**

6A-04-10/99

Controls

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Pause Audio

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Main Menu

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Next Response



DOT Haz-Mat Transportation Training Module--> 1. The Hazardous Materials Table

File View Help

AutoPlay Ctrl+P

✓ Sound Effects

✓ Narration Audio

# HAZARDOUS MATERIALS TABLE COLUMN (1)

**Contains:**

**+ A D G I W**

## §172.101 HAZARDOUS MATERIALS TABLE

Symbols	Hazardous materials descriptions and proper shipping names	Hazard class or Division	Identification Numbers
(1)	(2)	(3)	(4)
	Accellerene, see p-Nitrosodimethylaniline.		
	Accumulators, electric, see Batteries, wet etc.		
D	Accumulators, pressurized, pneumatic or hydraulic (containing non-flammable gas).	2.2	NA1956
	Acetal .....	3	UN1088
	Acetaldehyde .....	3	UN1089
A	Acetaldehyde ammonia .....	9	UN1841
	Acetaldehyde oxime .....	3	UN2332
	Acetic acid, glacial or Acetic acid so-	8	UN2789

01-04-10/99

Controls

Logon ID: AUTO

02/03/2000 17:25

Pause Audio

Rewind Audio

Main Menu

Back One Frame

Next Frame

Next Response

